



jsonxml

JSON Data

Name: New York

Latitude: 40.7128

Longitude: 74.0060

Temperature: 10

Humidity: 43

PARSE XML DATA



jsonxml

PARSE JSON DATA

PARSE XML DATA



jsonxml

XML Data

Name: Bangalore

Latitude: 12.9716

Longitude: 77.5946

Temperature: 31

Humidity: 62

JSON Data

Name: New York

Latitude: 40.7128

Longitude: 74.0060

Temperature: 10

Humidity: 43

(1) WhatsApp x Execution failed for task ':app:main' x +

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help jsonxml - activity_main.xml [jsonxml.app]

jsonxml4 > app > src > main > res > layout > activity_main.xml

activity_main.xml x city.json x city1.xml x MainActivity.java x

Code Split Design

1 <?xml version="1.0" encoding="utf-8"?>
2 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3 xmlns:app="http://schemas.android.com/apk/res-auto"
4 xmlns:tools="http://schemas.android.com/tools"
5 android:layout_width="match_parent"
6 android:layout_height="match_parent"
7 android:background="#FBFAFA"
8 tools:context=".MainActivity">
9
10 <Button
11 android:id="@+id/btnjson"
12 android:layout_width="wrap_content"
13 android:layout_height="wrap_content"
14 android:layout_marginBottom="68dp"
15 android:backgroundTint="@color/white"
16 android:text="Parse JSON Data"
17 android:textColor="#e63737"
18 app:layout_constraintBottom_toBottomOf="parent"
19 app:layout_constraintEnd_toStartOf="@+id/btnxml"
20 app:layout_constraintHorizontal_bias="0.465"
21 app:layout_constraintStart_toStartOf="parent"
22 app:layout_constraintTop_toBottomOf="@+id/tableLayout"

androidx.constraintlayout.widget.ConstraintLayout

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Event Log Layout Inspector

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jsonxml4 > app > src > main > res > layout > activity_main.xml

activity_main.xml x city.json x city1.xml x MainActivity.java x

Code Split Design

6 15 ^ v

```
21 app:layout_constraintStart_toStartOf="parent"
22 app:layout_constraintTop_toBottomOf="@+id/tableLayout"
23 app:layout_constraintVertical_bias="0.276" />
24
25 <Button
26     android:id="@+id/btnxml"
27     android:layout_width="wrap_content"
28     android:layout_height="wrap_content"
29     android:layout_marginEnd="20dp"
30     android:layout_marginRight="20dp"
31     android:layout_marginBottom="68dp"
32     android:backgroundTint="@color/white"
33     android:text="Parse XML Data"
34     android:textColor="#4265ed"
35     app:layout_constraintBottom_toBottomOf="parent"
36     app:layout_constraintEnd_toEndOf="parent"
37     app:layout_constraintTop_toBottomOf="@+id/tableLayout"
38     app:layout_constraintVertical_bias="0.276" />
39
40 <TableLayout
41     android:id="@+id/tableLayout"
42     android:layout_width="411dp"
43     android:layout_height="111dp"
44     android:backgroundTint="@color/white"
45     android:padding="10dp"
46     android:stretchColumns="1"
47     android:verticalScrollBarStyle="none"
48     app:layout_constraintStart_toStartOf="parent"
49     app:layout_constraintTop_toTopOf="parent"
50     app:layout_constraintWidth_default="wrap" />
```

androidx.constraintlayout.widget.ConstraintLayout

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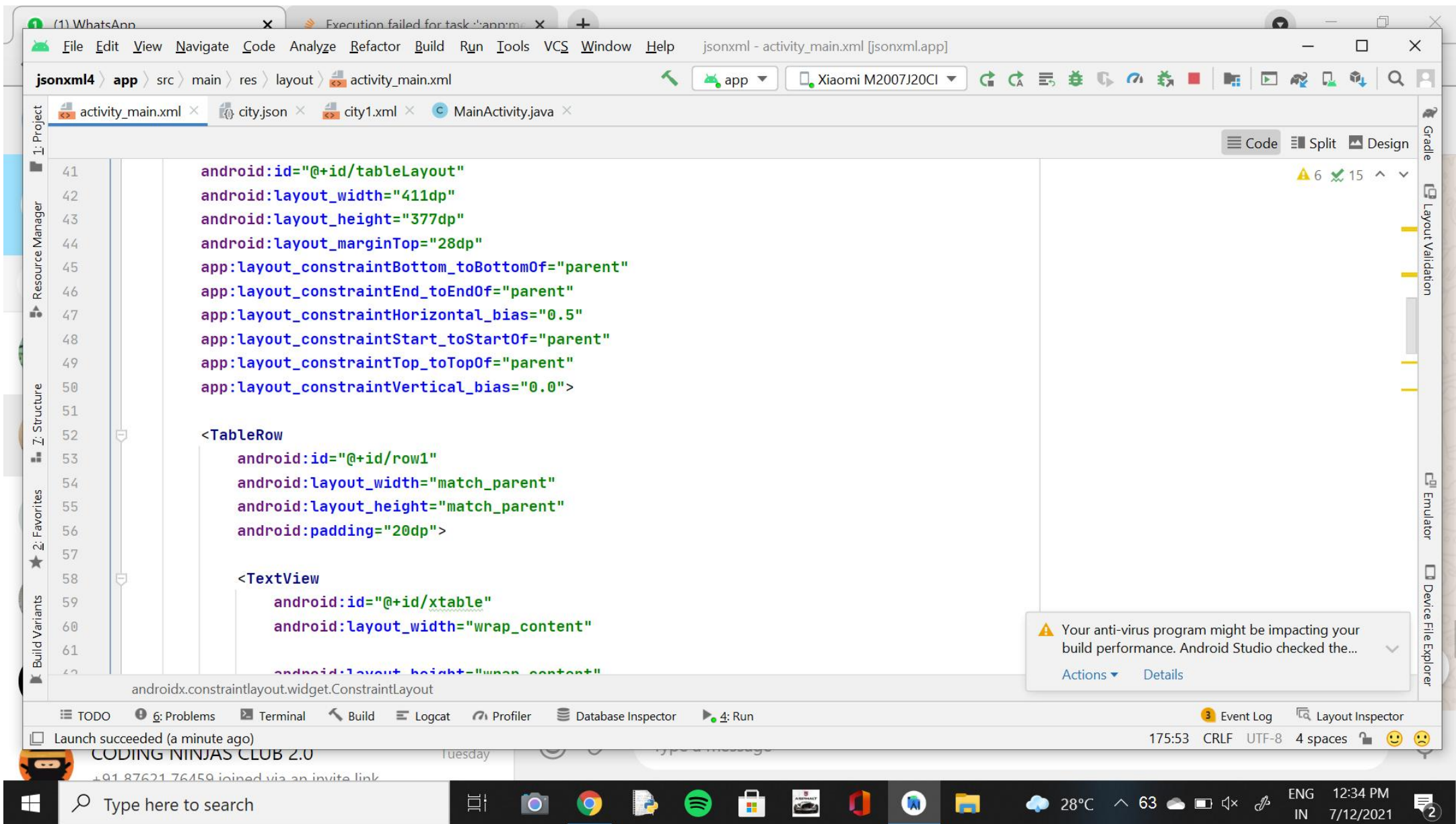
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Execution failed for task ':app:writeDebugSigningConfigVersions'

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help jsonxml - activity_main.xml [jsonxml.app]

jsonxml4 > app > src > main > res > layout > activity_main.xml

activity_main.xml x city.json x city1.xml x MainActivity.java x

Code Split Design

62 android:layout_height="wrap_content"

63 android:layout_gravity="center_horizontal"

64 android:layout_weight="1"

65 android:text="XML Data"

66 android:textAlignment="center"

67 android:textStyle="bold" />

68

69 <TextView

70 android:id="@+id/jtable"

71 android:layout_width="wrap_content"

72 android:layout_height="wrap_content"

73 android:layout_gravity="center_horizontal"

74 android:layout_weight="1"

75 android:text="JSON Data"

76 android:textAlignment="center"

77 android:textStyle="bold" />

78 </TableRow>

79

80 <TableRow

81 android:id="@+id/row2"

82 android:layout_width="wrap_content"

83 android:layout_height="wrap_content"

84

androidx.constraintlayout.widget.ConstraintLayout

Launch succeeded (a minute ago)

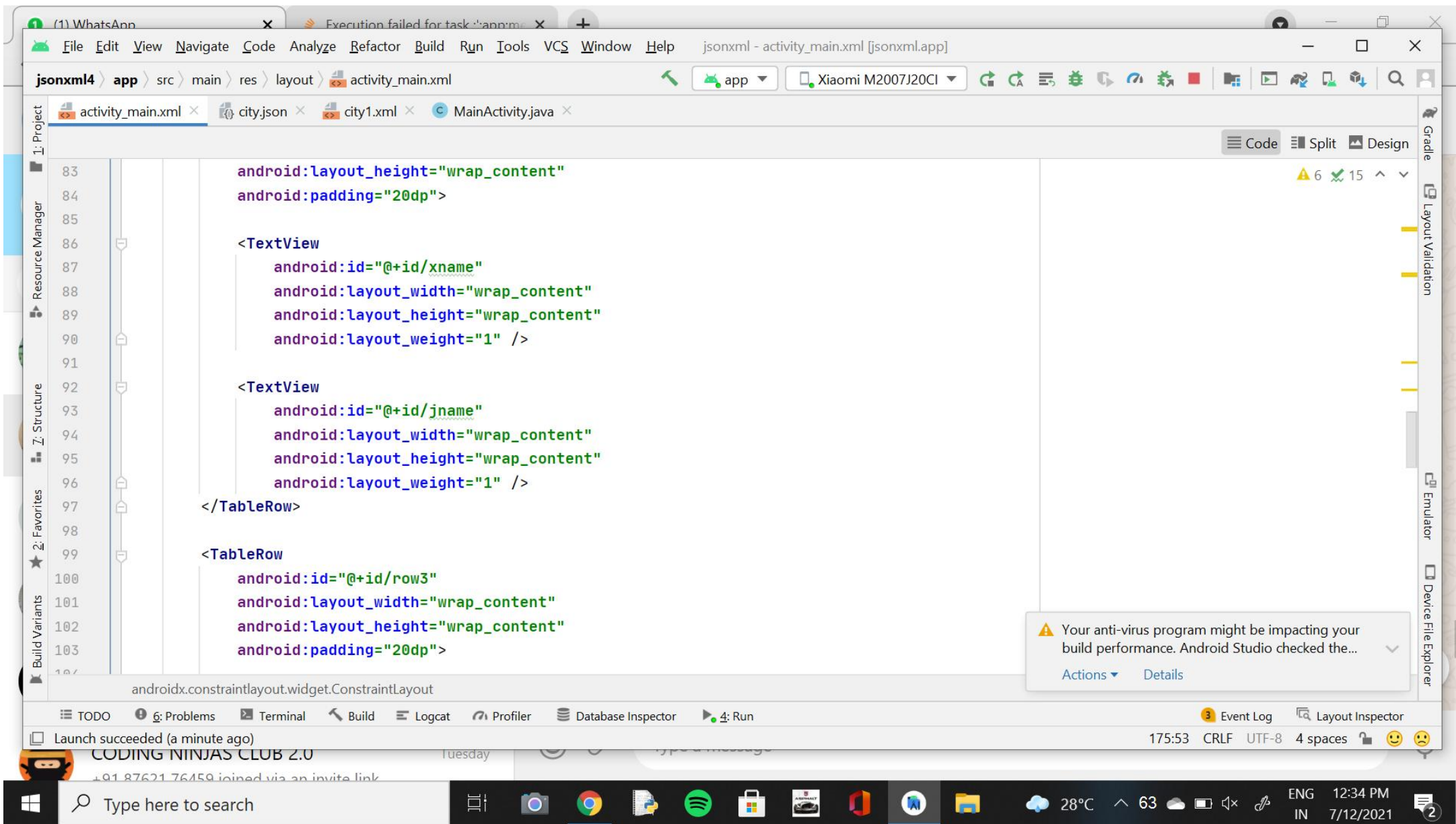
CODING NINJAS CLUB 2.0

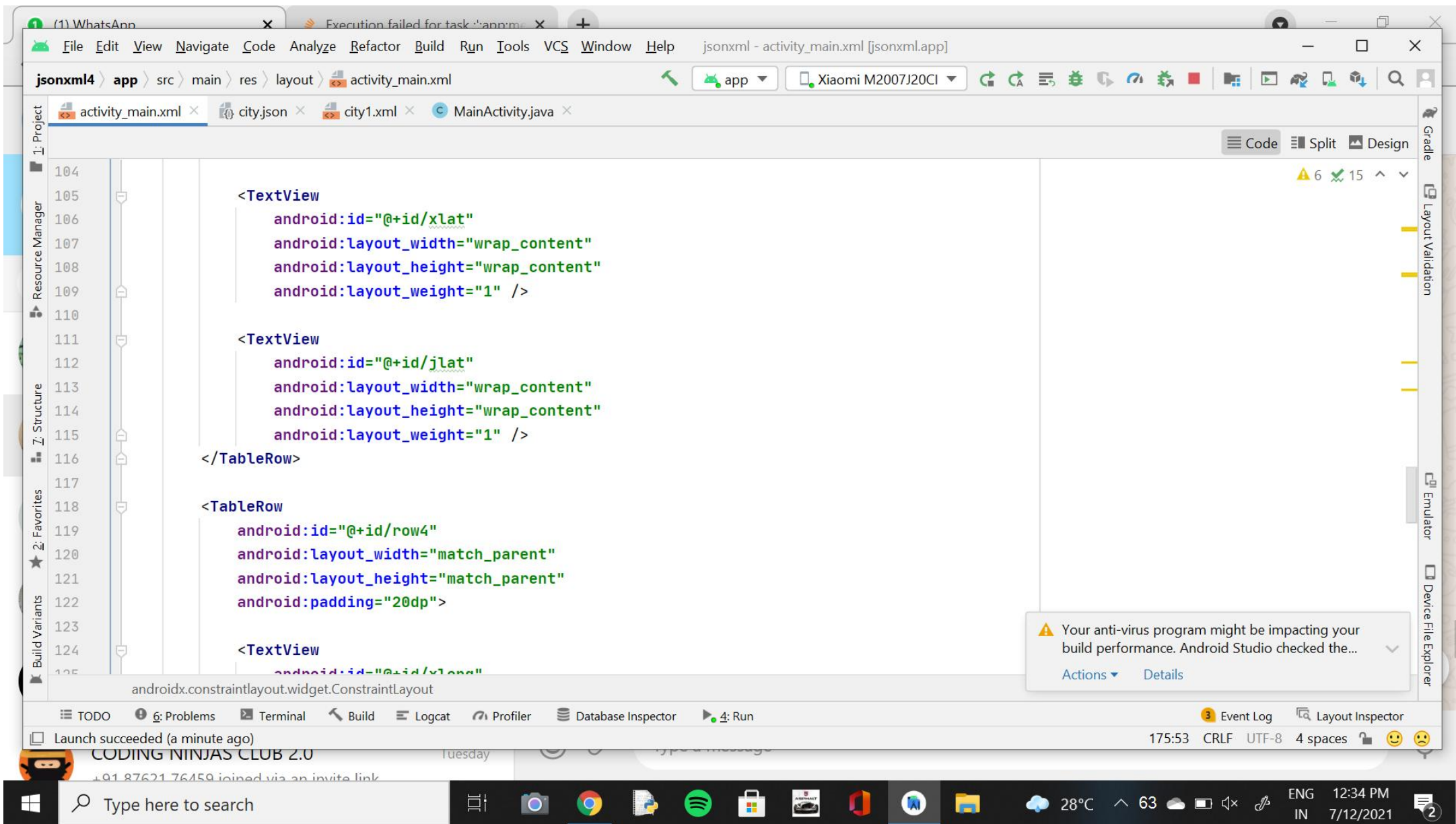
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Actions Details



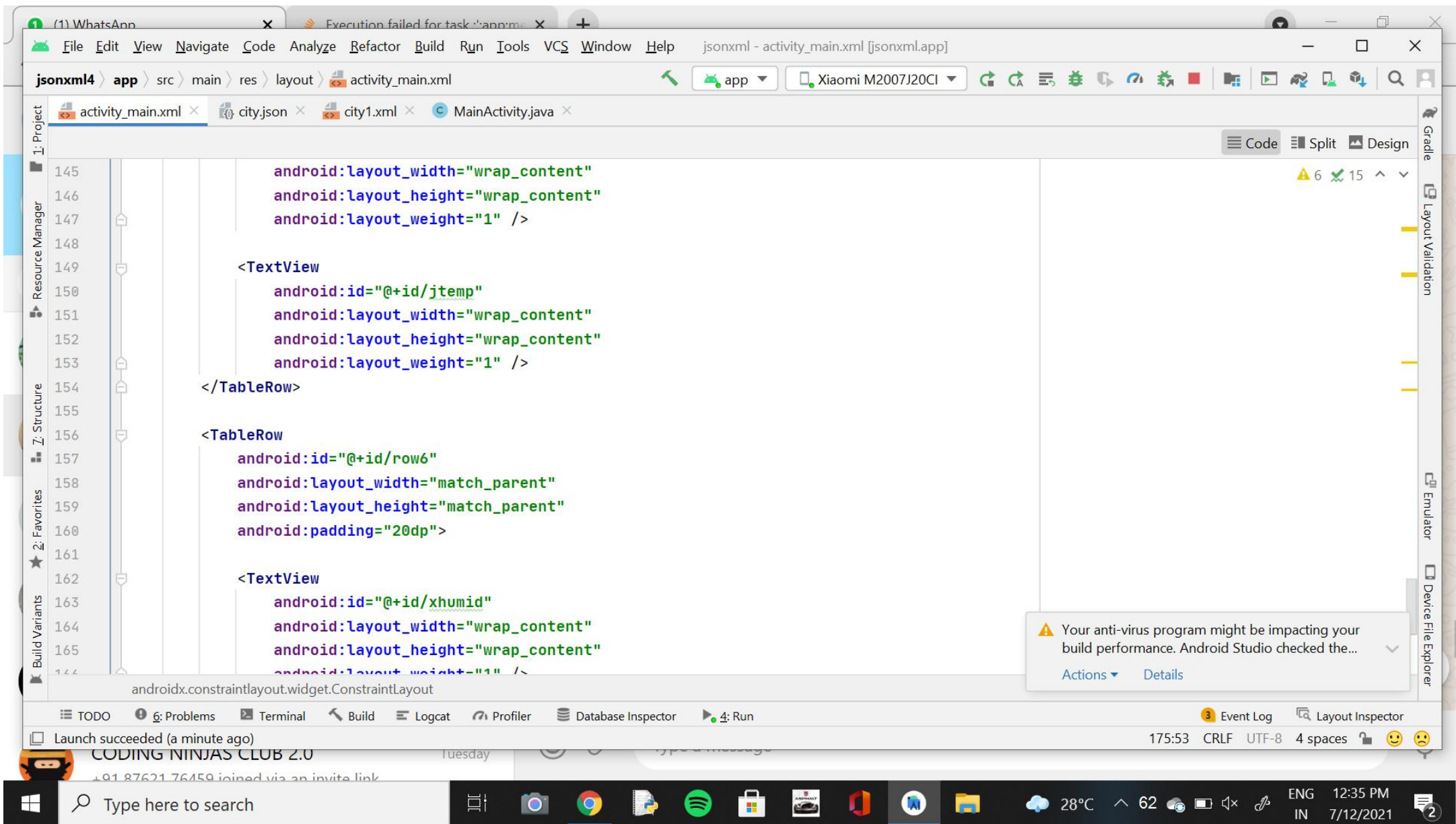


Android Studio interface showing the XML layout file `activity_main.xml` for the `jsonxml4` app. The layout is a `ConstraintLayout` containing three `TextView` elements and one `TableRow`.

```
124 <TextView
125     android:id="@+id/xlong"
126     android:layout_width="wrap_content"
127     android:layout_height="wrap_content"
128     android:layout_weight="1" />
129
130 <TextView
131     android:id="@+id/jlong"
132     android:layout_width="wrap_content"
133     android:layout_height="wrap_content"
134     android:layout_weight="1" />
135 </TableRow>
136
137 <TableRow
138     android:id="@+id/row5"
139     android:layout_width="match_parent"
140     android:layout_height="match_parent"
141     android:padding="20dp">
142
143     <TextView
144         android:id="@+id/xtemp"
145         android:layout_width="wrap_content"
```

The interface includes a sidebar with Project, Resource Manager, Z Structure, Favorites, Build Variants, and tabs for activity_main.xml, city.json, city1.xml, and MainActivity.java. The bottom status bar shows "Launch succeeded (a minute ago)" and system information.

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(1) WhatsApp | Execution failed for task ':app:main' | jsonxml - activity_main.xml [jsonxml.app]

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

jsonxml4 > app > src > main > res > layout > activity_main.xml

activity_main.xml x city.json x city1.xml x MainActivity.java x

Code Split Design

6 15

```
159 android:layout_height="match_parent"
160 android:padding="20dp">
161
162 <TextView
163     android:id="@+id/xhumid"
164     android:layout_width="wrap_content"
165     android:layout_height="wrap_content"
166     android:layout_weight="1" />
167
168 <TextView
169     android:id="@+id/jhumid"
170     android:layout_width="wrap_content"
171     android:layout_height="wrap_content"
172     android:layout_weight="1" />
173 </TableRow>
174 </TableLayout>
175 </androidx.constraintlayout.widget.ConstraintLayout>
```

androidx.constraintlayout.widget.ConstraintLayout

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Actions Details

(1) WhatsApp Execution failed for task ':app:main' x

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help jsonxml - MainActivity.java [jsonxml.app]

jsonxml4 app src main java com example jsonxml MainActivity

activity_main.xml city.json city1.xml MainActivity.java

```
1 package com.example.jsonxml;
2
3 import androidx.appcompat.app.AppCompatActivity;
4 import android.os.Bundle;
5 import android.view.View;
6 import android.widget.Button;
7 import android.widget.TextView;
8 import org.json.JSONObject;
9 import org.w3c.dom.Document;
10 import org.w3c.dom.Element;
11 import org.w3c.dom.NodeList;
12 import java.io.InputStream;
13 import javax.xml.parsers.DocumentBuilder;
14 import javax.xml.parsers.DocumentBuilderFactory;
15 public class MainActivity extends AppCompatActivity {
16     Button bx,bj;
17     TextView tx,tj;
18     String KEY_NAME = "name";
19     String KEY_LATITUDE = "latitude";
20     String KEY_LONGITUDE = "longitude";
21     String KEY_TEMPERATURE = "temperature";
22     String KEY_HUMIDITY = "humidity";
23     @Override
24     protected void onCreate(Bundle savedInstanceState) {
```

22

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[Actions](#) [Details](#)

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(1) WhatsApp x Execution failed for task ':app:main' x

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help jsonxml - MainActivity.java [jsonxml.app]

jsonxml4 app src main java com example jsonxml MainActivity

activity_main.xml x city.json x city1.xml x MainActivity.java x

```
24 protected void onCreate(Bundle savedInstanceState) {
25     super.onCreate(savedInstanceState);
26     setContentView(R.layout.activity_main);
27     tx=findViewById(R.id.xtable);
28     tj=findViewById(R.id.jtable);
29     tx.setVisibility(View.GONE);
30     tj.setVisibility(View.GONE);
31     bx=findViewById(R.id.btnxml);
32     bj=findViewById(R.id.btnjson);
33     bx.setOnClickListener(this::parseXml);
34     bj.setOnClickListener(this::parseJson);
35 }
36 private void parseXml(View v){
37     tx.setVisibility(View.VISIBLE);
38     bx.setVisibility(View.GONE);
39     try{
40         InputStream stream = getAssets().open(fileName: "city1.xml");
41         DocumentBuilderFactory factory = DocumentBuilderFactory.newInstance();
42         DocumentBuilder db = factory.newDocumentBuilder();
43         Document dom = db.parse(stream);
44         NodeList city = dom.getElementsByTagName("city");
45         String name = "";
46         String latitude = "";
47         String longitude = "";
```

22

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[Actions](#) [Details](#)

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(1) WhatsApp x Execution failed for task ':app:...' x

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help jsonxml - MainActivity.java [jsonxml.app]

jsonxml4 > app > src > main > java > com > example > jsonxml > MainActivity

activity_main.xml x city.json x city1.xml x MainActivity.java x

```
45 String name = "";
46 String latitude = "";
47 String longitude = "";
48 String humidity = "";
49 String temperature = "";
50
51 for(int i=0; i<city.getLength(); i++){
52
53     Element e = (Element) city.item(i);
54     if(name.equals("")){
55         name = this.getValue(e,KEY_NAME);
56     } if(latitude.equals("")){
57         latitude = this.getValue(e,KEY_LATITUDE);
58     } if(longitude.equals("")){
59         longitude = this.getValue(e,KEY_LONGITUDE);
60     } if(humidity.equals("")){
61         humidity = this.getValue(e,KEY_HUMIDITY);
62     } if(temperature.equals("")){
63         temperature = this.getValue(e, KEY_TEMPERATURE );
64     }
65 }
66 ((TextView)findViewById(R.id.xname)).setText("Name: "+name);
67 ((TextView)findViewById(R.id.xlat)).setText("Latitude: "+latitude);
68 ((TextView)findViewById(R.id.xlong)).setText("Longitude: "+longitude);
```

22

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(1) WhatsApp | Execution failed for task ':app:...' | jsonxml - MainActivity.java [jsonxml.app]

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

jsonxml4 | app | src | main | java | com | example | jsonxml | MainActivity

activity_main.xml | city.json | city1.xml | MainActivity.java

```
69 ((TextView)findViewById(R.id.xhumid)).setText("Humidity: "+humidity);
70 ((TextView)findViewById(R.id.xtemp)).setText("Temperature: "+temperature);
71 }
72 catch(Exception e){
73     System.out.println("Something Went Wrong: "+ e.getMessage());
74     e.printStackTrace();
75 }
76 @
77 private String getValue(Element item, String str) {
78     NodeList n = item.getElementsByTagName(str);
79     return n.item( index: 0).getFirstChild().getNodeValue();
80 }
81 private void parseJson(View v){
82     tj.setVisibility(View.VISIBLE);
83     bj.setVisibility(View.GONE);
84     JSONObject city;
85     try{
86         InputStream is = getAssets().open( fileName: "city.json");
87         int size = is.available();
88         byte[] buffer = new byte[size];
89         is.read(buffer);
90         is.close();
91         city = new JSONObject(new String(buffer, charsetName: "UTF-8"));
92         ((TextView)findViewById(R.id.jname)).setText("Name: "+city.getString( name: "name"));
93         ((TextView)findViewById(R.id.jlat)).setText("Latitude: "+city.getString( name: "latitude"));
```

22

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Actions Details

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(1) WhatsApp | Execution failed for task ':app:...' | jsonxml - MainActivity.java [jsonxml.app]

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

jsonxml4 > app > src > main > java > com > example > jsonxml > MainActivity

activity_main.xml x city.json x city1.xml x MainActivity.java x

```
82     bj.setVisibility(View.GONE);
83     JSONObject city;
84     try{
85         InputStream is = getAssets().open( fileName: "city.json");
86         int size = is.available();
87         byte[] buffer = new byte[size];
88         is.read(buffer);
89         is.close();
90         city = new JSONObject(new String(buffer, charsetName: "UTF-8"));
91         ((TextView)findViewById(R.id.jname)).setText("Name: "+city.getString( name: "name"));
92         ((TextView)findViewById(R.id.jlat)).setText("Latitude: "+city.getString( name: "latitude"));
93         ((TextView)findViewById(R.id.jlong)).setText("Longitude: "+city.getString( name: "longitude"));
94         ((TextView)findViewById(R.id.jtemp)).setText("Temperature: "+city.getString( name: "temperature"));
95         ((TextView)findViewById(R.id.jhumid)).setText("Humidity: "+city.getString( name: "humidity"));
96     }
97     catch(Exception ex){ ex.printStackTrace();
98     }
99 }
100 }
```

22 ^ v

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TODO Problems Terminal Build Logcat Profiler Database Inspector Run

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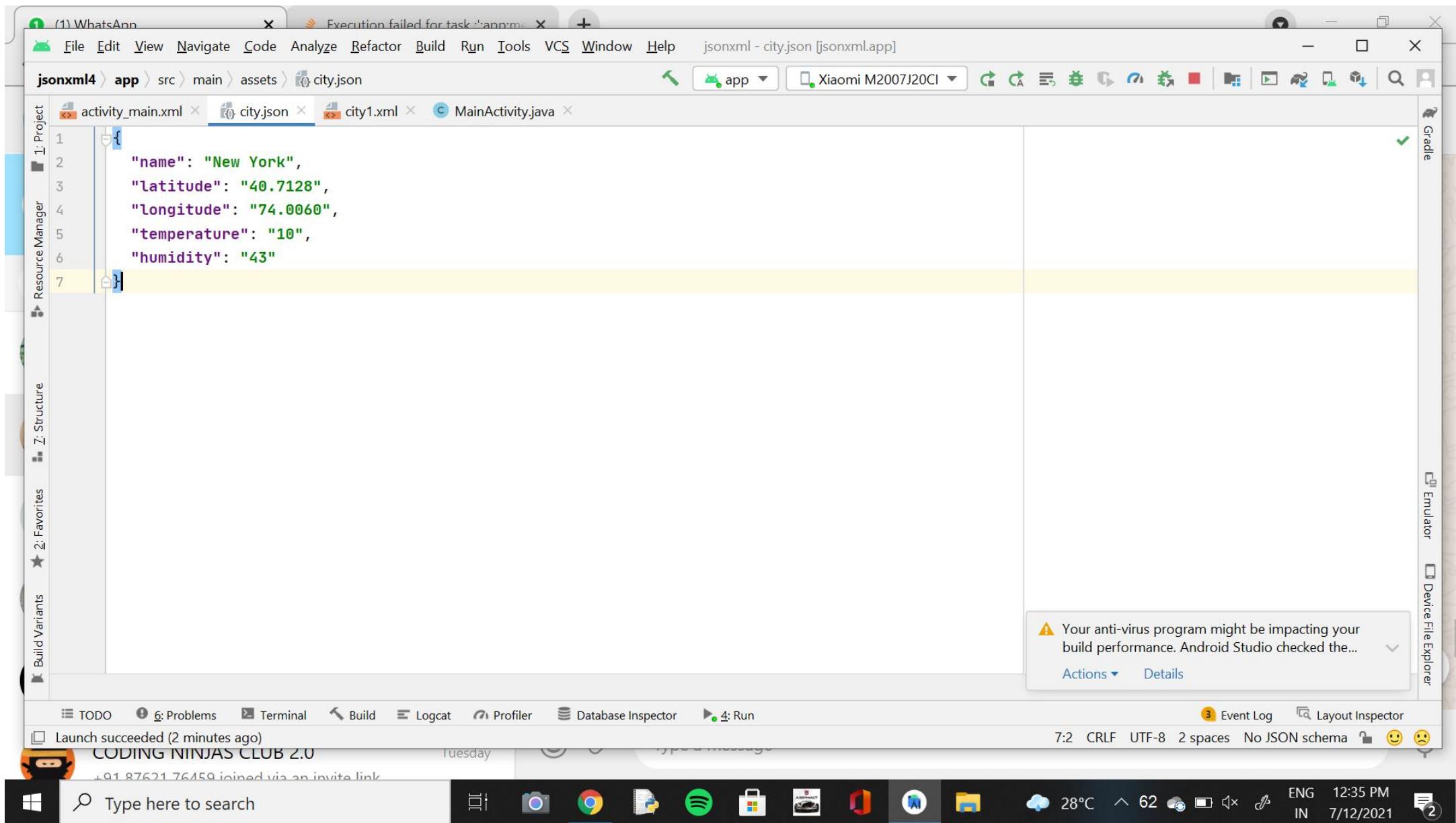
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File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help jsonxml - city1.xml [jsonxml.app]

jsonxml4 > app > src > main > assets > city1.xml

activity_main.xml x city.json x city1.xml x MainActivity.java x

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <city>
3     <name>Bangalore</name>
4     <latitude>12.9716</latitude>
5     <longitude>77.5946</longitude>
6     <temperature>31</temperature>    <humidity>62</humidity>
7 </city>
```

city

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